IN THE CLAIMS

- 1-7 (Canceled)
- 8. (new) A method for applying manganese phosphate layers to iron or steel surfaces comprising contacting workpieces with a phosphating solution comprising
 - 0.2 to 4 g/l of iron (II) ions
 - to 25 g/l of manganese ions
 - 25 to 50 g/l of phosphate ions (calc. as P_2O_5)
 - 3 to 35 g/1 of nitrate ions
 - 0.5 to 5 g/l of nitroguanidine

said solution having 7 to 24 points of free acid, 50 to 140 points of total acid, and an S value of 0.2 to 1, and drying the workpieces to form a manganese phosphate layer having a minimum thickness of 2 μ m and an average maximum roughness depth (R_z) of from 1.3 to 2.5 μ m.

- 9. (new) The method according to claim 8, wherein said phosphating solution that comprises 0.5 to 2 g/l of nitroguanidine.
- 10. (new) A method according to claim 8, wherein the phosphating solution comprises not more than 2.5 g/1 of iron (II) ions.
- 11. (new) A method according to claim 8, wherein the workpiece is steel and said phosphating solution comprises a complex-forming agent for the alloying constituents of the steel.
- 12. (new) A method according to claim 11, wherein said coupler-forming agent is citric acid.

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- 13. (new) A method according to claim 8, wherein said phosphating solution further comprises at least one metal ion selected from the group consisting of
 - 0.2 to 4 g/l of nickel ions and
 - 0.2 to 4 g/l of magnesium ions.
- 14. (new) A method according to claim 8, wherein at least a portion of the manganese ions in said phosphating solution are replaced by manganese carbonate to neutralize free acid.
- 15. (new) A the method according to claim 8, wherein said workpieces are subjected to a sliding friction.
- 16. (new) A method according to claim 8, wherein said workpieces are selected from the group consisting of axles, gear mechanism parts and engine pistons.